

REMARKS

Claims 1-13 are now present in this application.

The specification and claim 9 have been amended. Reconsideration of the application, as amended, is respectfully requested.

Claim 9 stands rejection under 35 U.S.C. § 112, second paragraph. This rejection is respectfully traversed.

In view of the forgoing amendments, it is respectfully submitted that the claims should particularly point out and distinctly claim the subject matter of the instant invention. Reconsideration and withdrawal of this rejection are respectfully requested.

Claims 1-7 and 10-13 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Hirano et al., U.S. Patent No. 4,704,566. This rejection is respectfully traversed.

Claims 8 and 9 stand rejected under 35 U.S.C. § 103 as being unpatentable over Hirano et al. in view of Hayashi, U.S. Patent No. 5,751,085. This rejection is respectfully traversed.

In the Hirano et al. patent, screws 15 are used to fix the magnetic pins. Similarly, in the Hayashi patent, screws 29 and 32 are used to fix the magnetic pins. In the instant invention, on the other hand, bores are used to engage the magnetic pins and screws do not have to be used.

The advantages of this feature of the present invention are that the size of the magnetic pins can be smaller without the screws. The rotors are easier to start up when the magnetic pins are smaller because the magnetic pins

actuate the rotors. Also, the magnetic pins are easier to construct without screws. The shape of the magnetic pins can be triangular, rectangular or polygonal and are not limited to being circular.

Support for this arrangement for the present invention can be found in the instant in the specification. For example, the fifth and sixth bore 165 and 166 engage with the magnetic pins 17a and 17b. The magnetic pins 17a and 17b are made of ferromagnetic material such as ferrite iron and are formed in cylindrical shapes for engaging with the fifth and sixth bore 165 and 166. This reference to the specification is merely used to help explain the invention but should not be considered as limiting in the claims.

It is respectfully submitted that the motor as set forth in independent claim 1 and the dependent claims would neither be suggested or rendered obvious by the utilized prior art.

Accordingly, it is respectfully requested that the 35 U.S.C. § 102(b) and 103 rejections should now be reconsidered and withdrawn.

Favorably reconsideration and an early notice of allowance are earnestly solicited.

Because the additional prior art cited by the Examiner has been included merely to show the state of the prior art and has not been utilized to reject the claims, no further comments concerning document are considered necessary at this time.

Conclusion

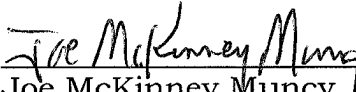
If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to contact the undersigned at (703) 205-8034, in the Washington, D.C. area.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

By:


Joe McKinney Muncy
Reg. No.: 32,334

KM/abs

P.O. Box 747
Falls Church, Virginia 22040-0747
Telephone: (703)205-8000

Attachment: Version with Markings to Show Changes Made

VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Specification:

The following paragraph beginning on page 5, line 2, has been replaced with the following rewritten paragraph.

[The forgoing, as well as additional objects, features and advantages of the present invention will be more readily apparent from the following detailed description, which proceeds with reference to the accompanying drawings.] Further scope of applicability of the present invention will become apparent from the detailed description given hereinafter. However, it should be understood that the detailed description and specific examples, while indicating preferred embodiments of the invention, are given by way of illustration only, since various changes and modifications within the spirit and scope of the invention will become apparent to those skilled in the art from this detailed description

Please insert the following paragraph on page 5, line 7.

The present invention will become more fully understood from the detailed description given hereinbelow and the accompanying drawings which are given by way of illustration only, and thus are not limitative of the present invention, and wherein:

In the Claims:

The claims have been amended as follows:

9. (Amended) The D.C. brushless voice-coil motor of claim 1, [wherein] further comprising a casing with an opening, the circuit board has an electric connection port extended outwards through the opening of the casing, the electric connection port having electric power supply input contacts located thereon.